

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 21 and 27 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claim 19, 24, 25, 30, and 31 as follows:

1- 18. (Cancelled)

19. (Currently Amended) A video information processing apparatus configured to convert interlaced video information into progressive video information, comprising:

a pixel value information storing unit for storing inputted pixel value information on reference pixels in each of a plurality of fields;

a reference pixel motion information generating unit for generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel value information on two reference pixels at the same position in different fields;

a reference pixel motion information storing unit for storing the motion information on each reference pixel generated by the reference pixel motion information generating unit for a plurality of fields; and

an interpolation pixel motion determining unit for determining whether motion information on an interpolation pixel is a moving image or a still image based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and the motion information on a reference pixel in a field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels

in the previous field and next field being at the same position as the interpolation pixel in the field of interest,

wherein the interpolation pixel motion determining unit is adapted to determine the motion information on the interpolation pixel in the field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the field previous to the field of interest and the motion information on the reference pixel in the next field indicate a moving image, and otherwise, to determine the motion information on the interpolation pixel in the field of interest as a still image.

20 - 23. (Cancelled)

24. (Currently Amended) A video information processing apparatus according to claim 19, further comprising:

an interpolation pixel value information generating unit for generating pixel value information on the interpolation pixel based on the pixel value information on a reference pixel in the previous field when the motion information on the interpolation pixel in the field of interest is determined as a still image by the interpolation pixel motion determining unit, and for generating pixel value information on the interpolation pixel based on the pixel value information on reference pixels in the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a moving image by the interpolation pixel motion determining unit.

25. (Currently Amended) A video information processing method for converting interlaced video information into progressive video information, comprising:

a reference pixel motion information generating step of generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel value information on two reference pixels at the same position in different fields;

a reference pixel motion information storing step of storing the motion information on each reference pixel generated in the reference pixel motion information generating step for a plurality of fields; and

an interpolation pixel motion determining step of determining whether motion information on an interpolation pixel is a moving image or a still image based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and the motion information on a reference pixel in a previous field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels in the previous field and next field being at the same position as the interpolation pixel in the field of interest,

wherein the interpolation pixel motion determining step comprises the steps of determining the motion information on the interpolation pixel in the field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the field previous to the field of interest and the motion information on the reference pixel in the next field indicate a moving image, and otherwise, determining the motion information on the interpolation pixel in the field of interest as a still image.

26 - 29. (Cancelled)

30. (Currently Amended) A video information processing method according to claim 25, further comprising:

an interpolation pixel value information generating step of generating pixel value information on the interpolation pixel based on the pixel value information on a reference pixel in the previous field when the motion information on the interpolation pixel in the field of interest is determined as a still image in the interpolation pixel motion determining step, and of generating pixel value information on the interpolation pixel based on the pixel value information on reference pixels in the field of interest when the motion information on the interpolation pixel in the field of interest is determined as a moving image in the interpolation pixel motion determining step.

31. (Currently Amended) An apparatus comprising:

pixel value information storing means for storing inputted pixel value information on reference pixels in each of a plurality of fields;

reference pixel motion information generating means for generating motion information on each reference pixel which indicates whether a reference pixel is a moving image or a still image at least based on difference between the pixel value information on two reference pixels at the same position in different fields;

reference pixel motion information storing means for storing the motion information on each reference pixel generated by the reference pixel motion information generating means for a plurality of fields;

interpolation pixel motion determining means for determining whether motion information on the interpolation pixel is a moving image or a still image based on the motion information on a reference pixel adjacent to an interpolation pixel in a field of interest, and the motion information on a reference pixel in a field previous to the field of interest and the motion information on a reference pixel in a next field following the field of interest, the reference pixels

in the previous field and next field being at the same position as the interpolation pixel in the field of interest,

wherein the interpolation pixel motion determining means is adapted to determine the motion information on the interpolation pixel in the field of interest as a moving image when the motion information on the reference pixel adjacent to the interpolation pixel in the field of interest indicates a moving image, or when both of the motion information on the reference pixel in the field previous to the field of interest and the motion information on the reference pixel in the next field indicate a moving image, and otherwise, to determine the motion information on the interpolation pixel in the field of interest as a still image.